

10/534651

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PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	Not Yet Assigned
				Filing Date	May 12, 2005
				First Named Inventor	Rodney Brian Hargreaves
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	ASZD-P01-898

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
AM	BA	WO-02/024682 A	03-28-2002			
	BB	WO-00/026202 A	05-11-2000			
	BC	WO-02/46173 A	06-13-2002			
	BD	WO-00/58293 A	10-05-2000			
AM	BE	WO-03/082838 A	10-09-2003			

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AM	CA	Kar, "Cinchophen Analogues as Potential CNS Agents," Journal of Pharmaceutical Sciences, American Pharmaceutical Association 72(9):1082-1084 (1983)	
	CB	Mein, Database Crossfile Beilstein 'Online! Beilstein Institut Zur Foerderung Der Chemischen Wissenschaften, Database accession no. 6511458(BRN) XP002272206 abstract and Indian J. Chem. Sect., 25(9):886 (1986)	
	CC	Kudri, "Enamine Product Listing," Database Chemcats 'Online! Chemical Abstract Service, XP002272448 Order Number: T0505-1260, T0504-9244 (2001)	
	CD	Kennedy, "Interchim Intermediated," Database Chemcats 'Online! Chemical Abstracts Service XP002272449 (2002)	
AM	CE	Edmont et al., "Synthesis and evaluation of quinoline carboxyguanidines as antidiabetic agents," Bioorganic & Medicinal Chemistry Letters 10(16):1831-1834 (2000)	
AM	CF	PCT/GB03/04916 International Search Report (3/31/04)	

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>AM Jeanes</i>	Date Considered	3/17/2006
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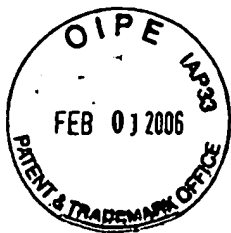
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		Number-Kind Code ² (if known)			
<i>RM</i>	AA*	US-6,613,942	09-02-2003		

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
<i>RM</i>	BA	WO-00/026202-A1	05-11-2000	Pharmacia & Upjohn S.P.A.		
	BB	WO-00/58293-A1	10-05-2000	F. Hoffmann-La Roche AG		
	BC	WO-01/20327-A1	03-22-2001	AstraZeneca AB		
	BD	WO-01/44216-A1	06-21-2001	F. Hoffman-La Roche AG		
	BE	WO-01/83465-A2	11-08-2001	F. Hoffman-La Roche AG		
	BF	WO-01/83478-A2	11-08-2001	F. Hoffman-La Roche AG		
	BG	WO-01/85706-A1	11-15-2001	F. Hoffman-La Roche AG		
	BH	WO-01/85707-A1	11-15-2001	F. Hoffman-La Roche AG		
	BI	WO-02/00633-A1	01-03-2002	Tularik Inc.		
	BJ	WO-02/024682-A1	03-28-2002	Janssen Pharmaceutica N.V.		
	BK	WO-02/064545-A1	08-22-2002	Aventis Pharma Deutschland GMBH		
	BL	WO-02/08209-A1	01-31-2002	F. Hoffman-La Roche AG		
	BM	WO-02/14312-A1	02-21-2002	F. Hoffman-La Roche AG		
	BN	WO-02/46173-A1	06-13-2002	F. Hoffman-La Roche AG		
	BO	WO-02/48106-A2	06-20-2002	F. Hoffman-La Roche AG		
	BP	WO-03/000262-A1	01-03-2003	AstraZeneca AB		
	BQ	WO-03/000267-A1	01-03-2003	AstraZeneca AB		
	BR	WO-03/015774-A1	02-27-2003	AstraZeneca AB		
	BS	WO-03/022856-A1	03-20-2003	Pharmacia & Upjohn Company		
	BT	WO-03/028641-A2	04-10-2003	Taisho Pharmaceutical Co., Ltd.		
	BU	WO-03/047626-A1	06-12-2003	Novo Nordisk A/S		
	BV	WO-03/048152-A2	06-12-2003	Tularik Inc.		
	BW	WO-03/055482-A1	07-10-2003	Novo Nordisk A/S		
	BX	WO-03/080585-A1	10-02-2003	Banyu Pharmaceutical Co., Ltd.		
	BY	WO-03/082838 A1	10-09-2003	Shanghai Institute of Materia Medica		
	BZ	WO-03/095438-A1	11-20-2003	F. Hoffman-La Roche AG		
	BA1	WO-03/097824-A1	11-27-2003	Banyu Pharmaceutical Co., Ltd.		
	BB1	WO-04/002481-A1	01-08-2004	Novo Nordisk A/S		
	BC1	WO-04/045614-A1	06-03-2004	AstraZeneca AB		
	BD1	WO-04/046139-A1	06-03-2004	AstraZeneca AB		
	BE1	WO-04/050645-A1	06-17-2004	Novartis AG		
	BF1	WO-04/052869-A1	06-24-2004	F. Hoffman-La Roche AG		
<i>RM</i>	BG1	WO-04/063179-A1	07-29-2004	Eli Lilly and Company		
	BH1	WO-04/063194-A1	07-29-2004	Eli Lilly and Company		
Examiner Signature	<i>RM Jensen</i>			Date Considered	3/17/2006	



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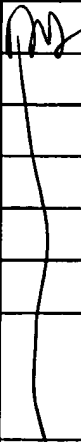

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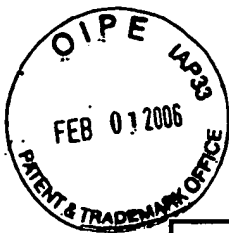
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				Art Unit	1615
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Sheet	2	of	4	Attorney Docket Number	ASZD-P01-898

BI1	WO-04/072031-A2	08-26-2004	Osi Pharmaceuticals, Inc.		
BJ1	WO-04/072066-A1	08-26-2004	Osi Pharmaceuticals, Inc.		
BK1	WO-04/076420-A1	09-10-2004	Banyu Pharmaceutical Co., Ltd.		
BL1	WO-04/081001-A1	09-23-2004	Banyu Pharmaceutical Co., Ltd.		
BM1	WO-04/110375-A2	12-23-2004	Merck & Co., Inc.		
BN1	WO-05/044801-A1	05-19-2005	AstraZeneca AB		
BO1	WO-05/049019-A1	06-02-2005	Novo Nordisk A/S		
BP1	WO-05/054200-A1	06-16-2005	AstraZeneca AB		
BQ1	WO-05/054233-A1	06-16-2005	AstraZeneca AB		
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BT1	GB-2385328-A	08-20-2003	F. Hoffman-La Roche AG		
BU1	JP-09040557 A	02-10-1997	Tanabe Seiyaku Co. Ltd.		
BV1	JP-2000086657 A	03-28-2000	Teikoku Hormone Mfg. Co.		

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CA	Alvarez et al., "Evidence that Glucokinase Regulatory Protein is Expressed and Interacts with Glucokinase in Rat Brain," Journal of Neurochemistry 80:45-53 (2002)			
	CB	Alvarez et al., "Expression of the Glucagon-Like Peptide-1 Receptor Gene in Rat Brain," Journal of Neurochemistry 66(3):920-927 (1996)			
	CC	Bell et al., "Glucokinase Mutations, Insulin Secretion, and Diabetes Mellitus," Annu. Rev. Physiol. 58:171-186 (1996)			
	CD	Brocklehurst et al., "Stimulation of Hepatocyte Glucose Metabolism by Novel Small Molecule Glucokinase Activators," Diabetes 53:535-541 (2004)			
	CE	Caro et al., "Liver Glucokinase: Decreased Activity in Patients with Type II Diabetes," Horm. Metab. Res. 27:19-22 (1995)			
	CF	Christesen et al., "The Second Activating Glucokinase Mutation (A456V) Implications for Glucose Homeostasis and Diabetes Therapy," Diabetes 51:1240-1246 (2002)			
	CG	Corbett, "Track 3 - Mastering Medicinal Chemistry: Applying Organic Chemistry to Biological Problems, Success Stories in Medicinal Chemistry," Molecular Medicine Tri-Conference, Moscone West Convention Center, San Francisco California, 3/26/05 - 11:00-11:30 Glucokinase Activators: Discovery of Novel, Orally Active Glucose Lowering Agents, March 24-26, 2004			
	CH	DeFronzo, "The Triumvirate: β -Cell, Muscle, Liver - A Collusion Responsible for NIDDM," Diabetes 37:667-687 (1988)			
	CI	Desai et al., "Phenotypic correction of Diabetic Mice by Adenovirus-Mediated Glucokinase Expression," Diabetes 50:2287-2295 (2001)			

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Sheet	3	of	4	Attorney Docket Number	ASZD-P01-898

CJ	Ferre et al., "Correction of Diabetic Alterations by Glucokinase," Proc. Natl. Acad. Sci. USA 93:7225-7230 (1996)
CK	Froguel et al., "Familial Hyperglycemia Due to Mutations in Glucokinase - Definition of a Subtype of Diabetes Mellitus," The New England Journal of Medicine 328(10):697-702 (1993)
CL	Fujimoto et al., "Administration of D-Glucosamine into the Third Cerebroventricle Induced Feeding Accompanied by Hyperglycemia in Rats," Life Sciences 37(26):2475-2482 (1985)
CM	Glaser et al., "Familial Hyperinsulinism Caused by an Activating Glucokinase Mutation," The New England Journal of Medicine 338(4):226-230 (1998)
CN	Grimsby et al., "Allosteric Activators of Glucokinase: Potential Role in Diabetes Therapy," Science 301:370-373 (2003)
CO	Grimsby, "Glucokinase Activators - Potential Treatment for Type 2 Diabetes," Roche - SMI Diabetes London UK pgs. 28-29 (2002)
CP	Kurata et al., "D-Glucose Suppression of Eating After Intra-Third Ventricle Infusion in Rat," Physiology & Behavior 37:615-620 (1986)
CQ	Kurata et al., "Structural Evaluation of Glucose Analogues on Feeding Elicitation in Rat," Metabolism 38(1):46-51 (1989)
CR	Levin et al., "Brain Glucose Sensing and body Energy Homeostasis: Role in Obesity and Diabetes," A. J. of Physiology 276:R1223-R1231 (1999)
CS	Levin et al., "Differential Effects of Diet and Obesity on High and Low Affinity Sulfonylurea Binding Sites in the Rat Brain," Brain Research 739:293-300 (1996)
CT	Levin et al., "In vivo and In vitro Regulation of [³ H] Glyburide Binding to Brain Sulfonylurea Receptors in Obesity-Prone and Resistant Rats by Glucose," Brain Research 776:146-153 (1997)
CU	Levin et al., "Reduced Glucose-Induced Neuronal Activation in the Hypothalamus of Diet-Induced Obese Rats," Brain Research 808:317-319 (1998)
CV	Levin, "Glucosensing Neurons do More Than Just Sense Glucose," International Journal of Obesity 25(5):S68-S72 (2001)
CW	Lynch et al., "Localization of Glucokinase Gene Expression in the Rat Brain," Diabetes 49:693-700 (2000)
CX	McKerrecher et al., "Discovery, Synthesis and Biological Evaluation of Novel Glucokinase Activators," Bioorganic & Medicinal chemistry Letters 15:2103-2106 (2005)
CY	Mobbs et al., "Brain Glucose-Sensing Mechanisms: Ubiquitous Silencing by Aglycemia vs. Hypothalamic Neuroendocrine Responses," Am. J. Physiol. Endocrinol. Metab. 281:E649-E654 (2001)
CZ	Moore et al., "Acute Fructose Administration Improves Oral Glucose Tolerance in Adults with Type 2 Diabetes," Diabetes Care 24(11):1882-1887 (2001)
CA1	Printz et al., "Mammalian Glucokinase," Annu. Rev. Nutr. 13:463-496 (1993)
CB1	Qian-Cutrone et al., "Glucolipin A and B, Two New Glucokinase Activators Produced by Streptomyces purpurogeniscleroticus and Nocardia vaccini, " The Journal of Antibiotics 52(3):245-255 (1999)
CC1	Roncero et al., "Functional Glucokinase Isoforms are Expressed in Rat Brain," Journal of Neurochemistry 74(5):1848-1857 (2000)
CD1	Rowe et al., "Potassium Channel Dysfunction in Hypothalamic Glucose-Receptive Neurones of Obese Zucker Rats," Journal of Physiology 497(2):365-377 (1996)
CE1	Schuit et al., "Perspectives in Diabetes - Glucose Sensing in Pancreatic β -Cells - A Model for the Study of Other Glucose-Regulated Cells in Gut, Pancreas, and Hypothalamus," Diabetes 50:1-11 (2001)

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CF1	Seoane et al., "Glucokinase Overexpression Restores Glucose Utilization and Storage in Cultured Hepatocytes from Male Zucker Diabetic Fatty Rats," The Journal of Biological Chemistry 274(45):31833-31838 (1999)	
CG1	Shiota et al., "Glucokinase Gene Locus Transgenic Mice are Resistant to the Development of Obesity-Induced Type 2 Diabetes," Diabetes 50:622-629 (2001)	
CH1	Spanswick et al., "Insulin Activates ATP-Sensitive K ⁺ Channels in Hypothalamic Neurons of Lean, but Not Obese Rats," Nature Neuroscience 3(8):757-758 (2000)	
CI1	Spanswick et al., "Leptin Inhibits Hypothalamic Neurons by Activation of ATP-Sensitive Potassium Channels," Nature 390:521-525 (1997)	
CJ1	Velho et al., "Impaired Hepatic Glycogen Synthesis in Glucokinase-Deficient (MODY-2) Subjects," J. Clin. Invest. 98:1755-1761 (1996)	
CK1	Yang et al., "Hypothalamic Glucose Sensor - Similarities to and Differences from Pancreatic β -Cell Mechanisms," Diabetes 48:1763-1772 (1999)	
CL1	Carroll et al., "Stress, Signalling and Control," Biochemical Society Meeting 679 2-4 July 2003	

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